U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

<u>:</u>		SECT	ION I		
MANUFACTURER'S NAME	EPHONE NO.				
Norchem	301				
8805 N. Tabler Road Morr		IL 604	50-9988 Antitre	Leze	Coolin
Antifreeze, Ethylene Glycol Ba	se	v	All Weather Anti	u. -freeze	Coolant
CHEMICAL FAMILY Dihydric Alcohol		HO - CH2 - CH2 - OH			
SECTION		ΗΔΖΔΙ	RDOUS INGREDIENTS		
PAINTS, PRESERVATIVES, & SOLVENTS	x	TLV (Units)	ALLOYS AND METALLIC COATING	gs %	TLV (Units)
PIGMENTS		i i i i i i i i i i i i i i i i i i i	BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS	7]	. ~		<u> </u>
HAZARDOUS MIXTURE	*	TLV (Units)			
Ethylene Glycol					
Other Glycols	5				
Proprietary Inorganic and Org	anic	Corros	sion Inhibitors	3	
SE(CTIO	N III - 1	PHYSICAL DATA	 -	
BOILING POINT (°F.)	_ 3	325	SPECIFIC GRAVITY (H ₂ O=1)		.13
VAPOR,PRESSURE (mm Hg.)		NA	PERCENT, VOLATILE BY VOLUME (%)		NA
VAPOR DÉNSITY (AIR-1)		NA	EVAPORATION RATE	1	NA
SOLUBILITY IN WATER	1	00%			
APPEARANCE AND ODOR	-				
	FIR	EAND	EXPLOSION HAZARD DATA	10	Uel
		<u> </u>	FLAMMABLE LIMITS		
250°F (Cleveland Open Cup) Extinguishing Media			·		1
		<u></u>			

THRESHOLD LIM	IT VALUE			TITIALAND		
EFFECTS OF OVE	REXPOSURE CEL	<u>ppm to</u>	or ethyle	ne glycol vap	or.	
•	35.0	ATTACE	ובט			
EMERGENCY AND	FIRST AID PROCE	DURES				
#Mergency	com on a Pos	miting.	For me	thod, call a	physician, a ho	spital
SEE ATTACHE	n	SON CON	itroi Len	cer. Always	see a physicián.	
. JEE ATTACHE	.U					
•		SECTIO	ON VI + P	EACTIVITY DA	\TA	
STABILITY	UNSTABLE	CONDITIONS TO AVOID				
	STABLE	X				•
INCOMPATABILIT	(Materials to avoid)		<u> </u>		•	
HAZARDOUS DEC	OMPOSITION PRODU	JCTS				
HAZARDOUS	MAY DCCL	ir.		CONDITIONS TO	AVOID	
POLYMERIZATION		WILL NOT OCCUR				
			X			
	SECT	LION AII	- SPILL (OR LEAK PROC	EDURES	
Dilute with	N IN CASE MATER	AL IS REL	EASED OR S	PILLED		
			·	· · · · · · · · · · · · · · · · · · ·		
WASTE DISPOSAL I	METHOD Incine	erate or	liquid	disposal acco	rding to local,	
1	ederal regula	tions	riguid	arsposar acco	ruing to local,	state and
			·	·	•	
					<u> </u>	
	SECTION	VIII - S	PECIAL P	ROTECTION IN	FORMATION	
RESPIRATORY PRO	TECTION (Specify t)	/pej	NA	· · · · · · · · · · · · · · · · · · ·		, <u> </u>
VENTILATION	LOCAL EXHAUST	1			SPECIAL	
•	MECHANICAL (Ge To keep TLV	neral) at or b	elow 50	DDM	OTHER	
Yes if handl	es ing hot glyco		100 30	EVE PROTECTION		
THER PROTECTIV	E EQUIPMENT		·	· · · · · · · · · · · · · · · · · · ·	Safety Goggles	•_
				· · · · · · · · · · · · · · · · · · ·		
	SE	CTION	X - SPEC	IAL PRECAUTI	ONS	
RECAUTIONS TO B	E TAKEN IN HAND	LING AND	STORING Pr	Otect against	extreme freezi	ng condi
-	tions. Fro	eeze po		proximately (ny condi
THER PREGAUTIO	NS	50	13 ap	P. UN INGLETY (/ Г.	
						
AGE (2)	PREPARED BY	· /	. d. u	Plute		
P D # 30 - \$40	DATE		OVEMBER	20, 1984		Form OSHA-20 Rev. May 72

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b :

EFFECTS OF OVER EXPOSURE

Swallowing:

Brain, kidney, liver damage, may be fatal.

Inhalation:

Narcosis, nausea and vomiting.

Eye Contact:

May cause minor eye irritation.

Skin:

No effect.

FIRST AID

First Aid Procedures

Eyes:

Irrigation of the eye immediately for five minutes is good safety

practice.

Consult medical.

Skin:

Wash off in flowing water. Decontaminate clothing and accessories

before reuse. Good personal hygiene..

nhalation:

Remove to fresh air if effects occur. Consult medical.

Ingestion:

Toxic by ingestion. Induce vomiting immediately.

physician and/or transport to emergency facility.

NOTE TO PHYSICIAN

Stain for evidence of corneal abrasion or injury. May cause neurologic signs and symptoms. May cause kidney damage. May cause electrolyte imbalance. Suggest baseline CBC, UA, and 12 test. Suggest baseline electrolytes. Consult standard literature. Use of alcohol may be helpful.